Writing a hypothesis

Grade 3 | Foundation | 5 questions, 19 marks

GCSE Statistics topic practice

Name: _____ **Date:** _____ **Score:** _____ **/ 19**

1 Here are four sentences about reading.

A	Do girls read more than boys?
B	Girls read more books each month than boys.
C	Reading is fun.
D	How many books did you read last month?

a. Write down the letter of the sentence that is a hypothesis. (1)

b. Give a reason for your answer to part (a). (1)

c. Explain why sentence A is not a hypothesis. (1)

(3 marks)

2 Leila thinks that older pupils spend more time on homework. She is going to investigate the pupils in Year 7 and Year 11 at her school.

a. Write down a suitable hypothesis for Leila to test. (1)

b. Write down two pieces of data Leila needs to collect from each pupil. (2)

(3 marks)

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3 Jamal thinks that tall people have long feet. He is going to investigate the students in his class.

a. Write down a suitable hypothesis for Jamal to test. (1)

b. Write down the two measurements Jamal needs to take from each student. (2)

c. Jamal measures the students himself.
Is his data primary data or secondary data? Give a reason. (1)

(4 marks)

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4 Sofia writes this hypothesis: "Year 9 pupils get more pocket money than Year 7 pupils."
She asks 5 pupils from each year group how much pocket money they get each week.

Year 7 (£)	4	5	5	6	10
Year 9 (£)	6	7	8	9	10

a. Work out the mean amount for each year group. (2)

b. Does the data support Sofia's hypothesis? Give a reason for your answer. (1)

c. Give one reason why Sofia's conclusion may not be reliable. (1)

(4 marks)

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5 Ravi owns a cafe. He writes this hypothesis: "The cafe is better on Saturdays."

a. Explain why this is not a good hypothesis. (1)

b. Write a better hypothesis for Ravi to test. (1)

c. Describe the data Ravi needs to test your hypothesis and where he could get it. (2)

d. Describe what the data would show if your hypothesis is true. (1)

(5 marks)

End of questions | Total 19 marks

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